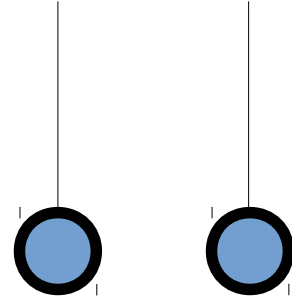


Signals – Memory – Programming Basics

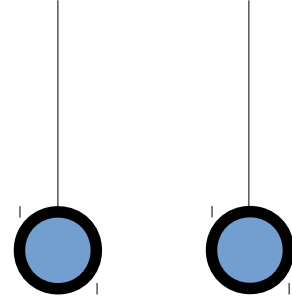
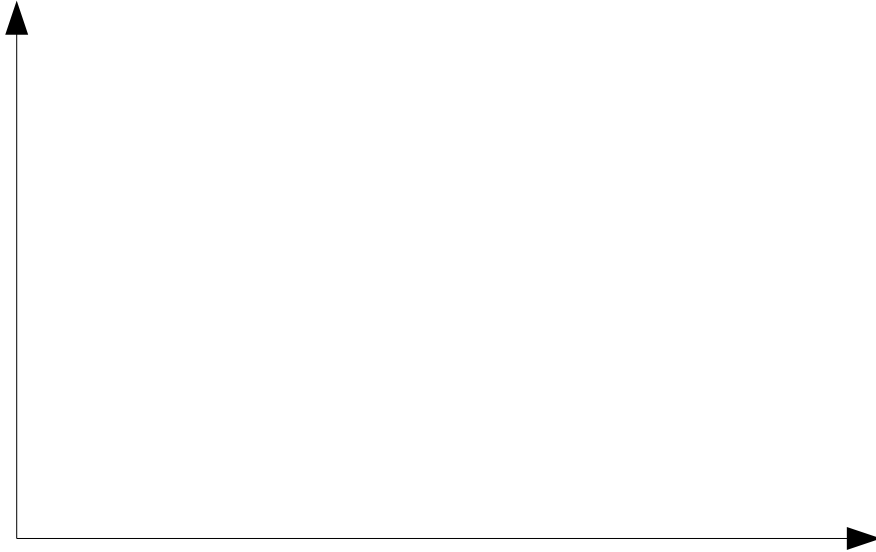
Outline

- What is Signal?
- Digital vs. Analog.
- What is pulse?
- Bit - Register - Memory?
- Programs Setup.
- Text Editor vs. Console vs. Compiler vs. IDE.
- Intro. to Programming.

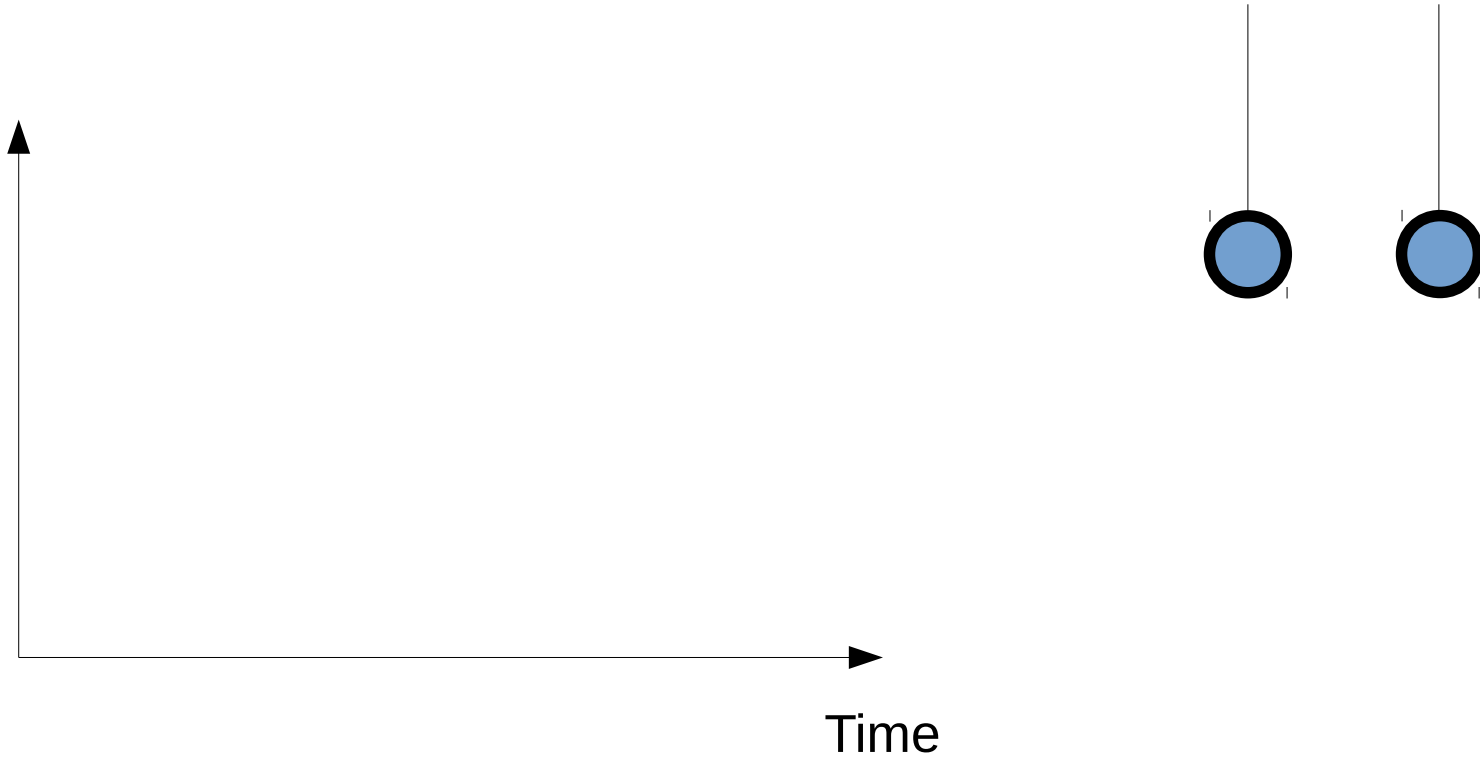
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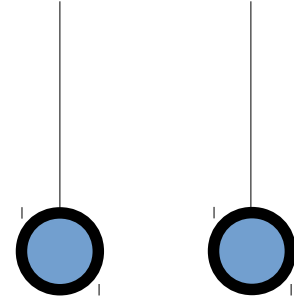
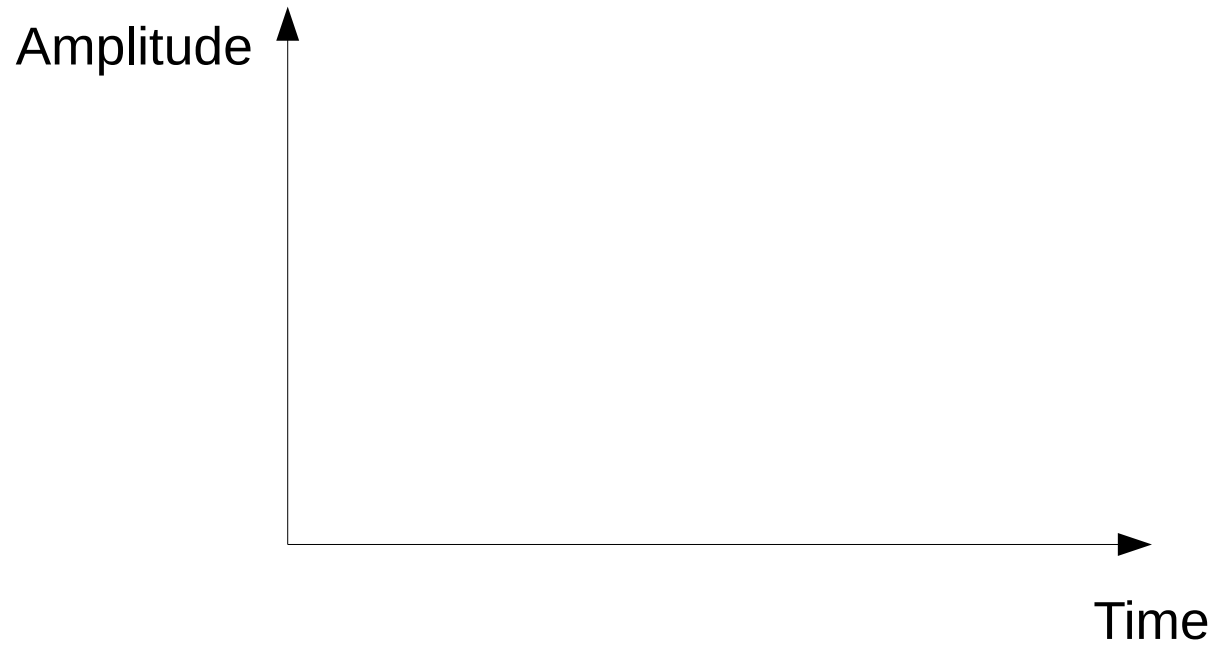
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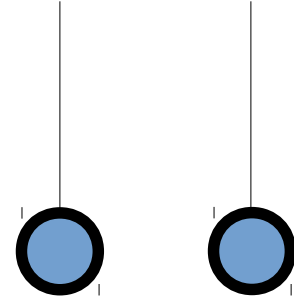
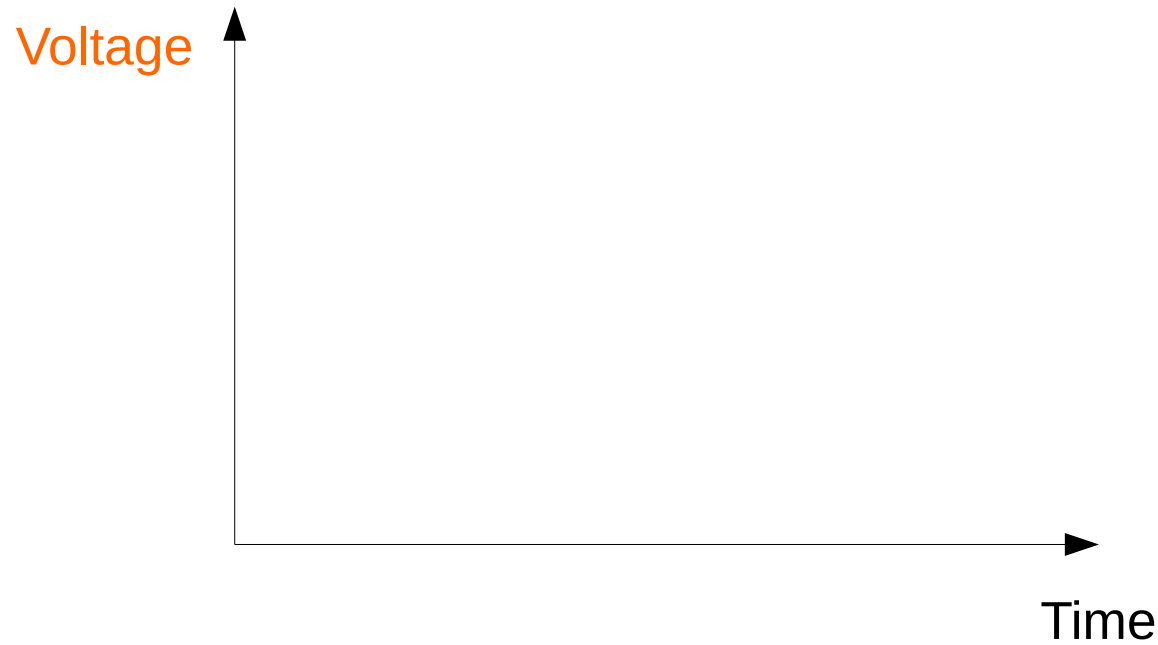
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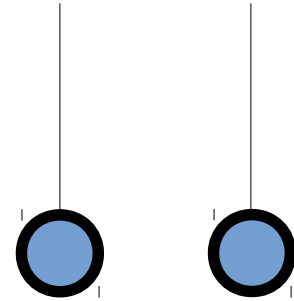
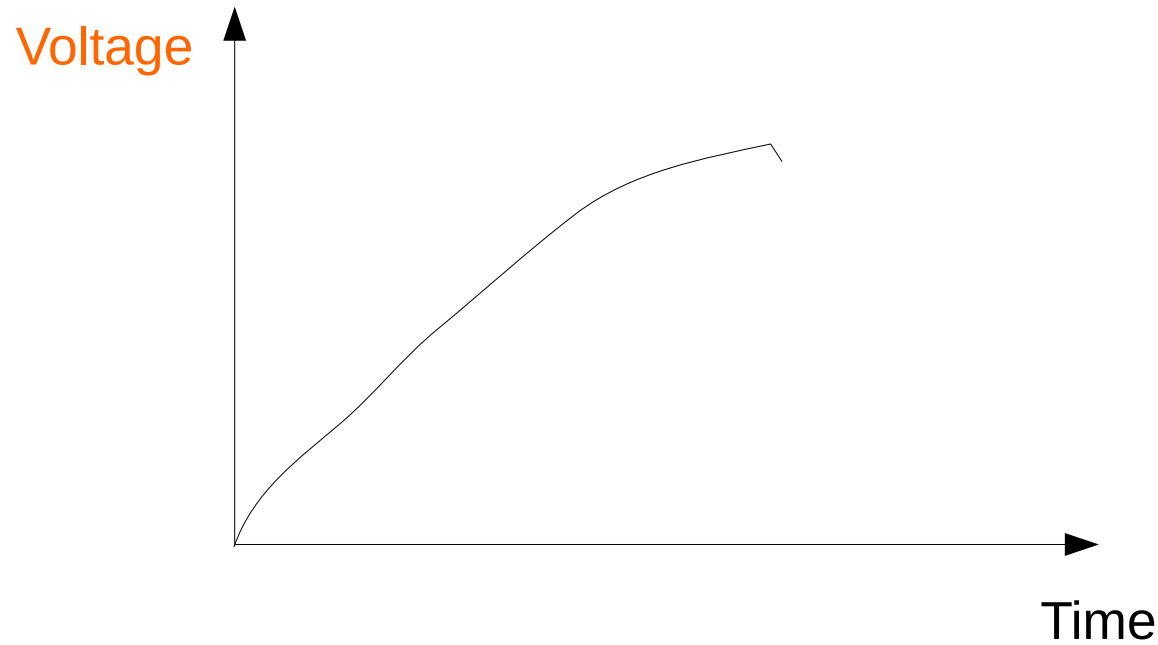
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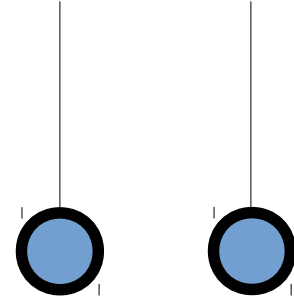
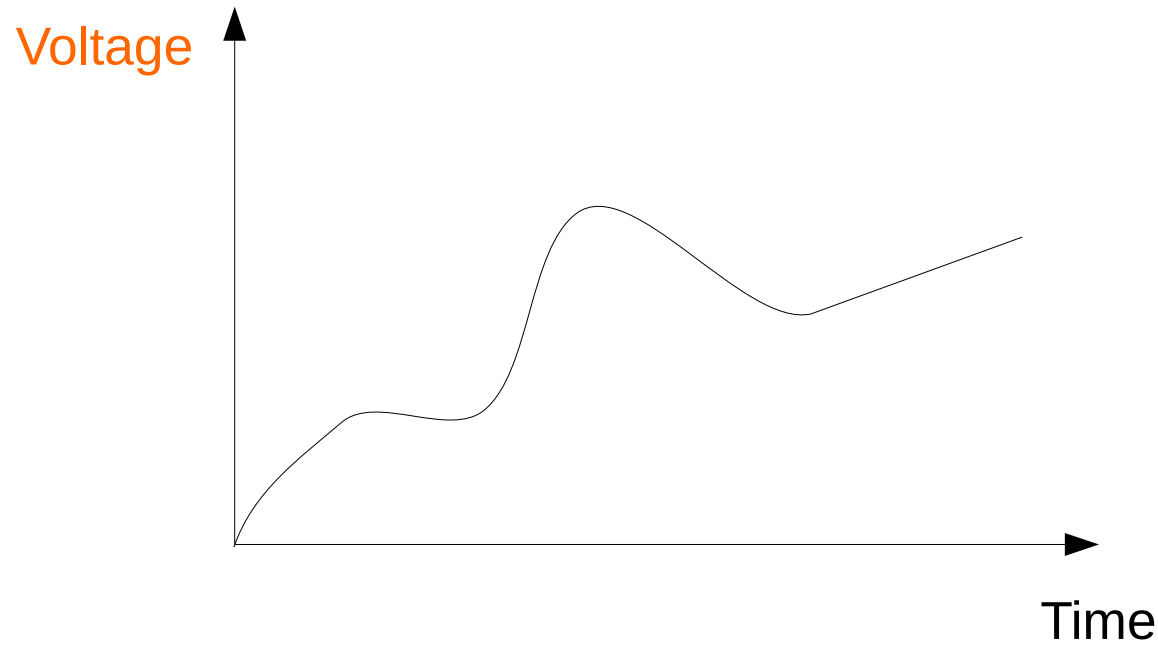
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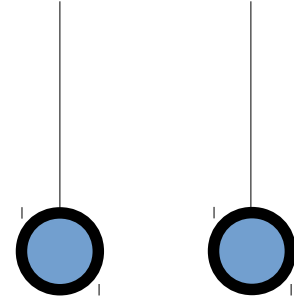
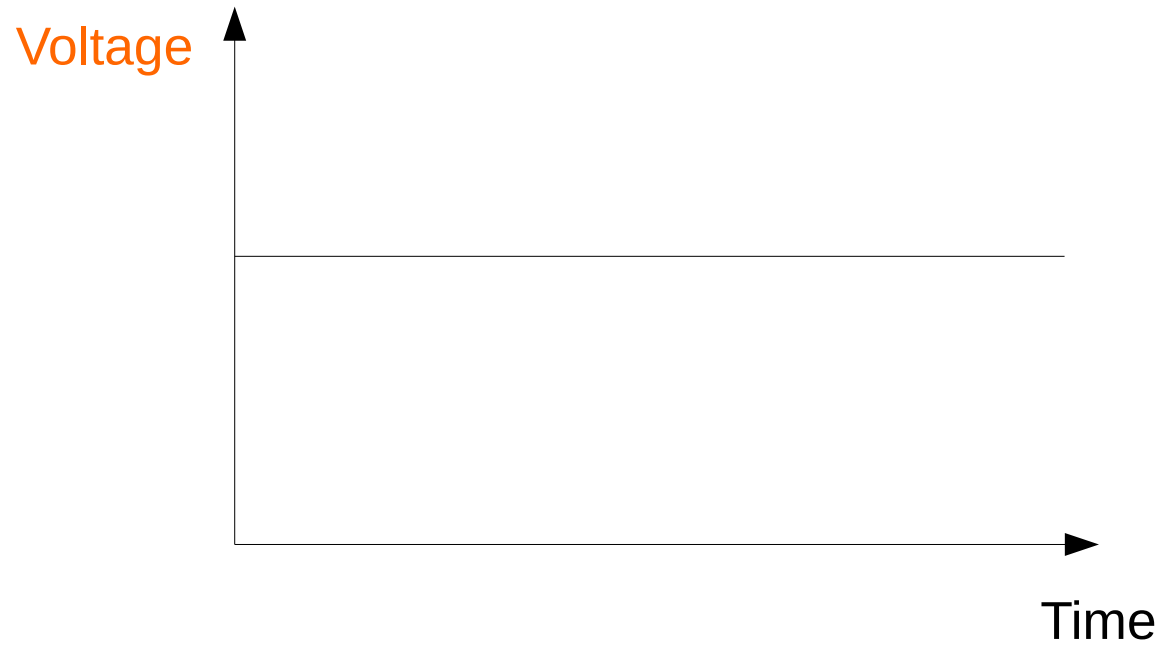
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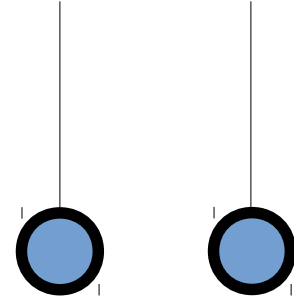
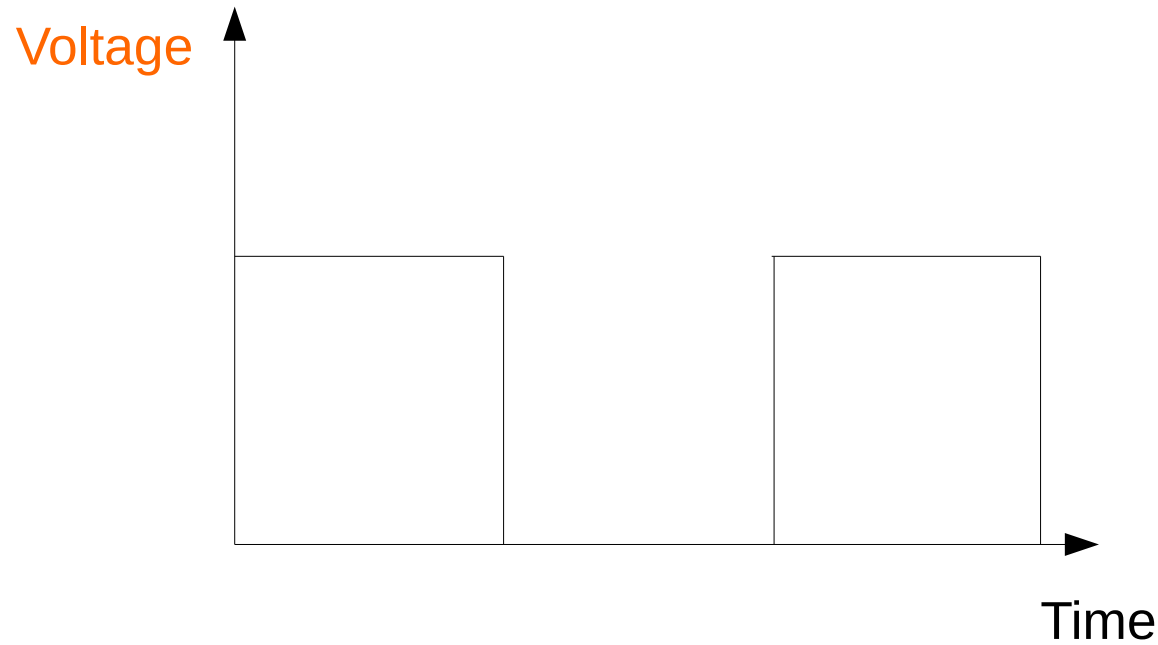
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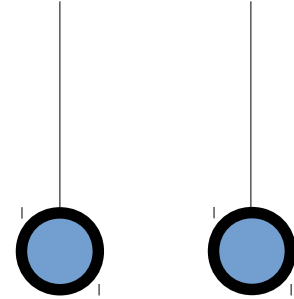
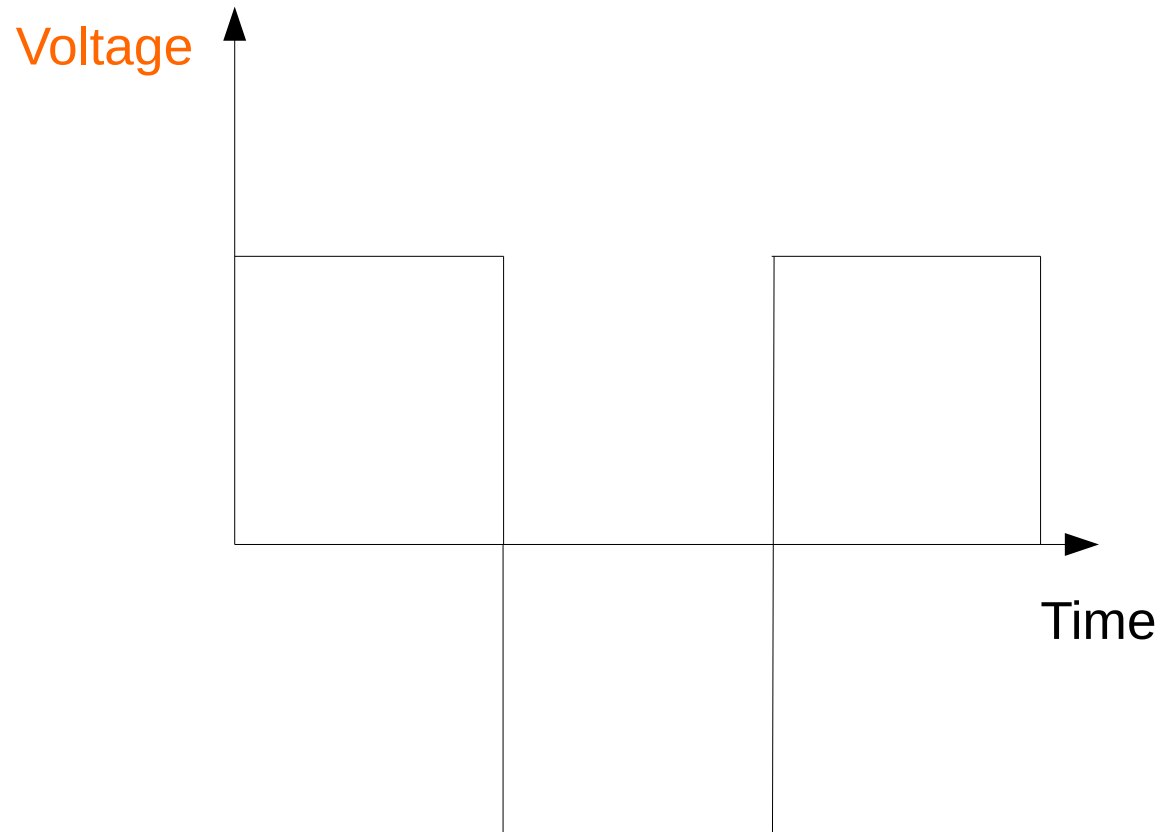
What is signal?



What is signal?

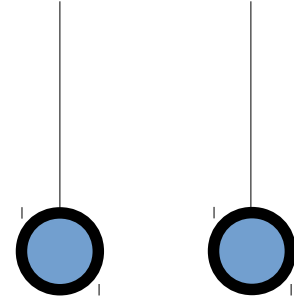
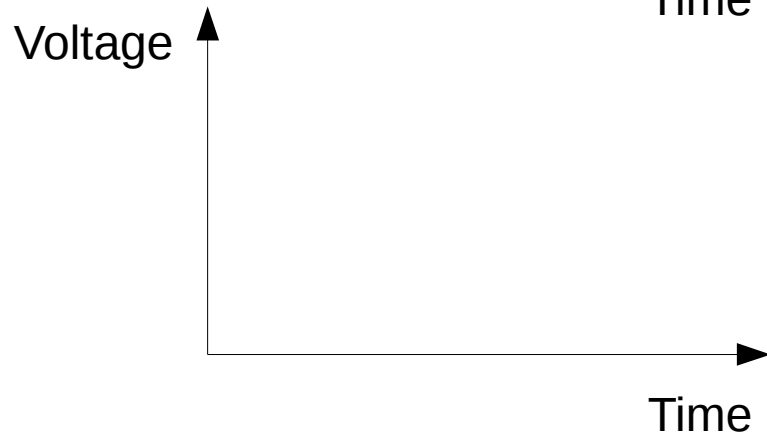
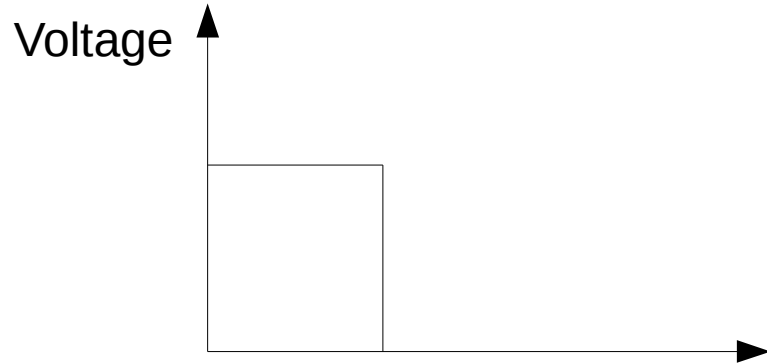


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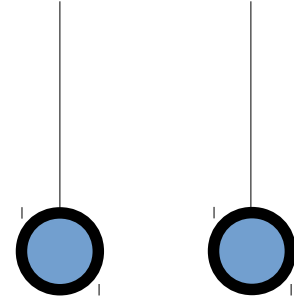
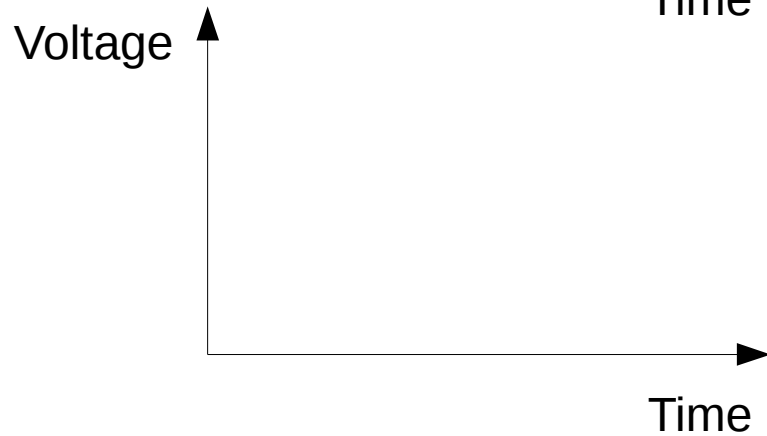
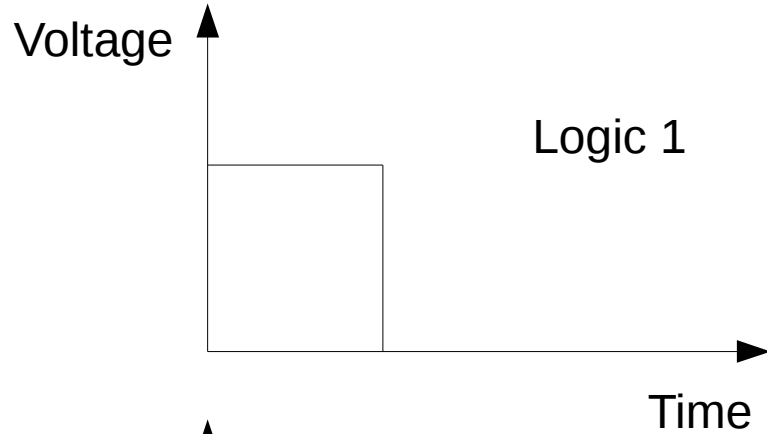
Digital vs. Analog

Digital



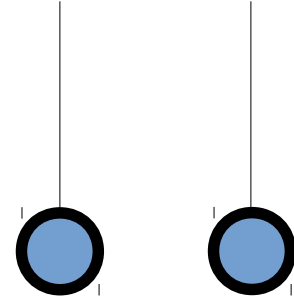
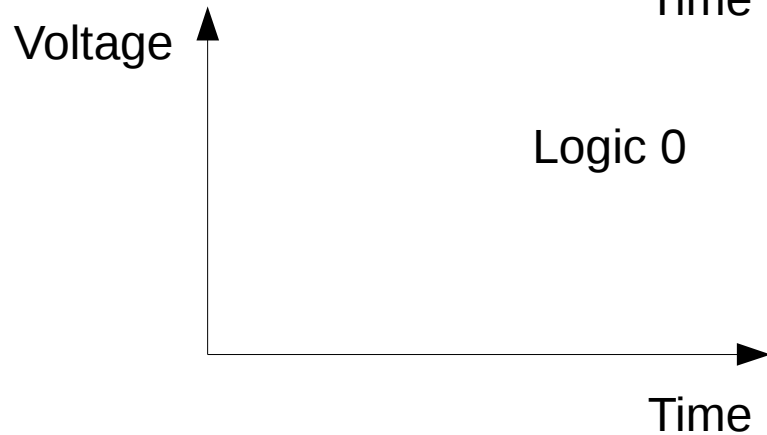
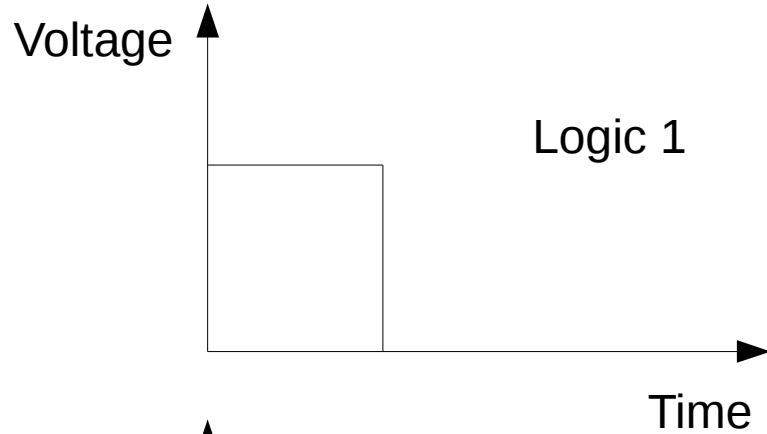
Digital vs. Analog

Digital



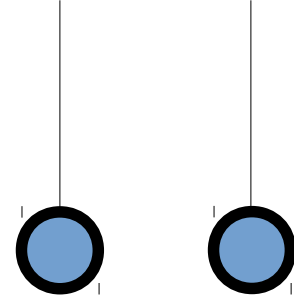
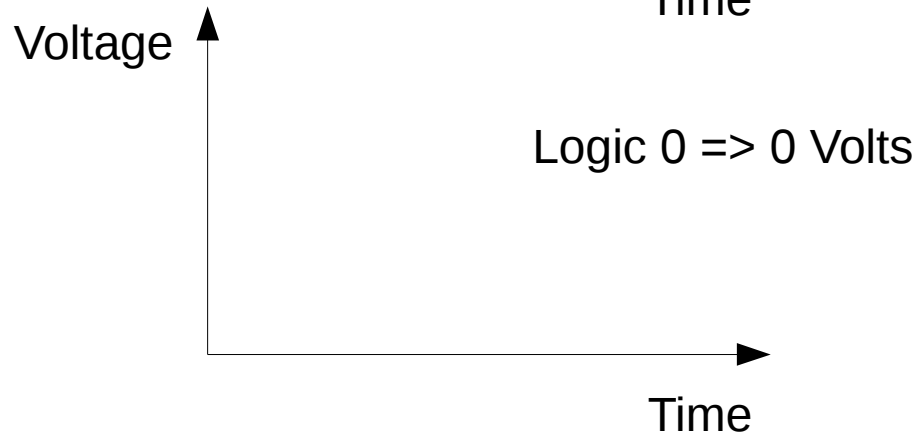
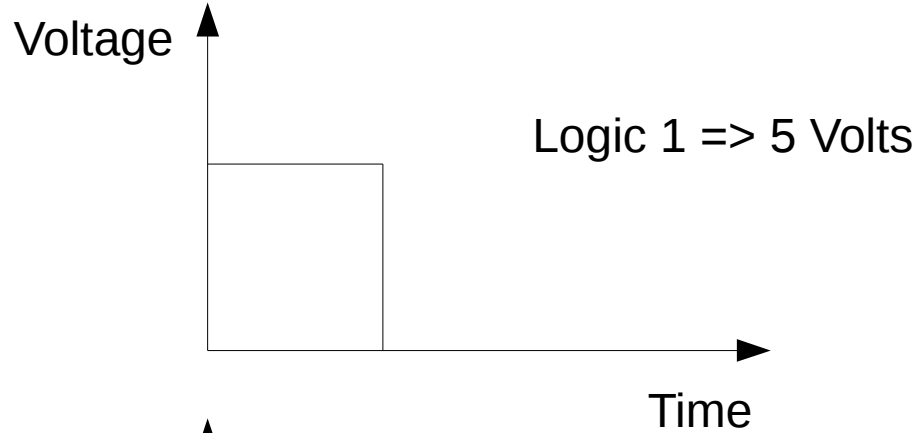
Digital vs. Analog

Digital



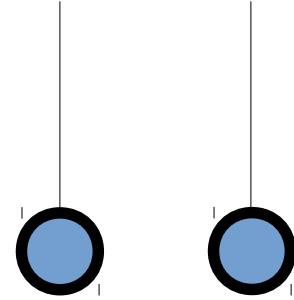
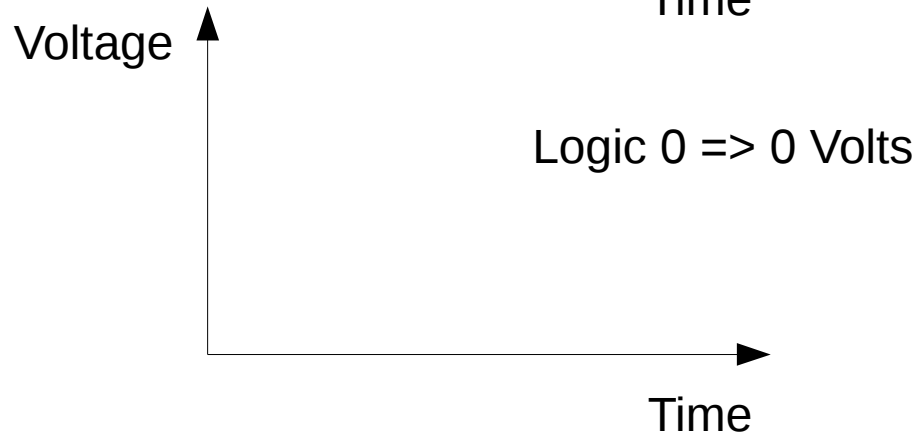
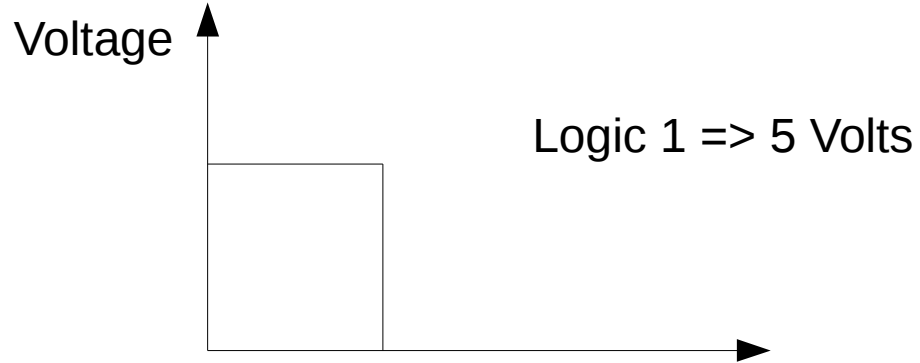
Digital vs. Analog

Digital

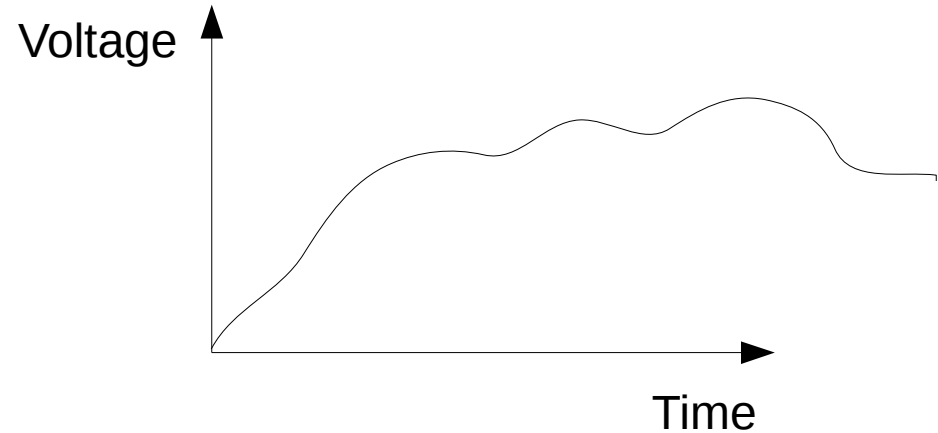


Digital vs. Analog

Digital

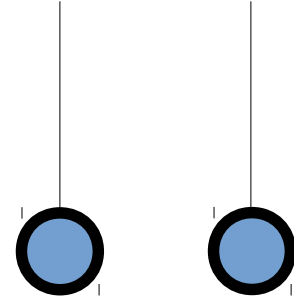
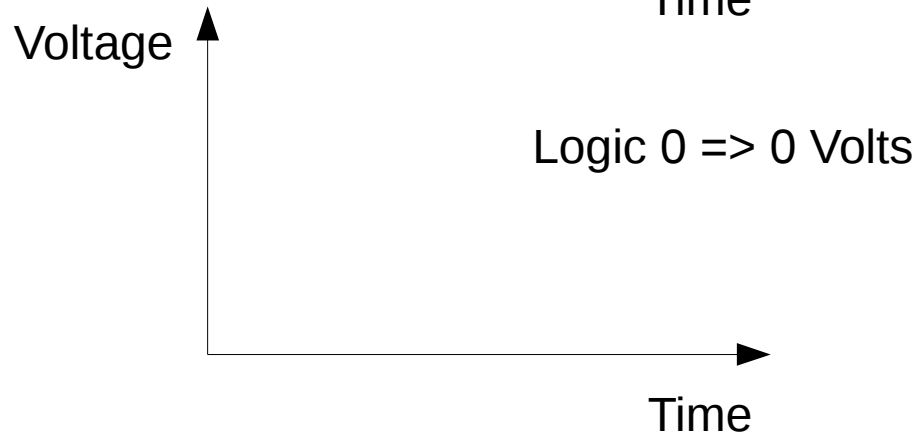
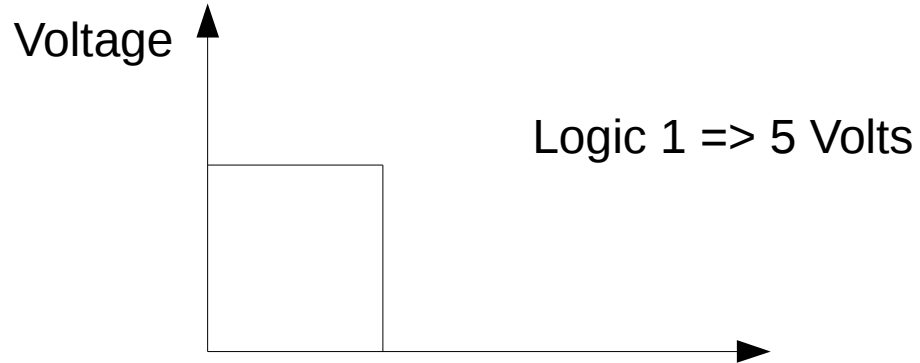


Analog

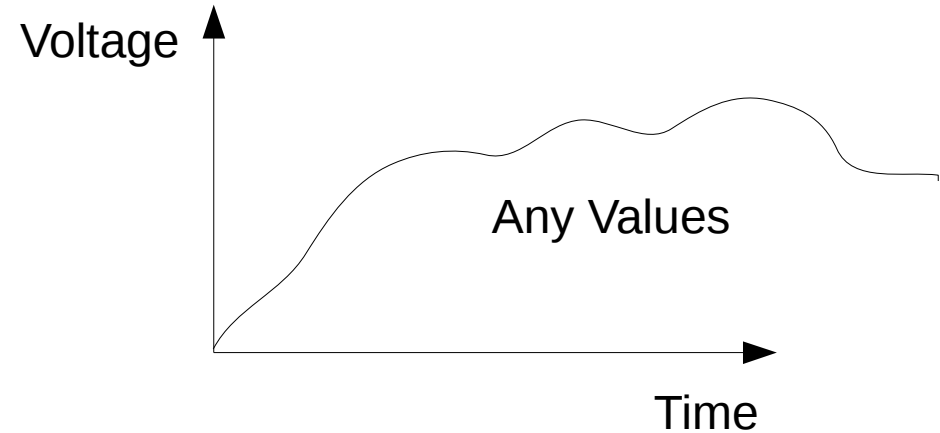


Digital vs. Analog

Digital

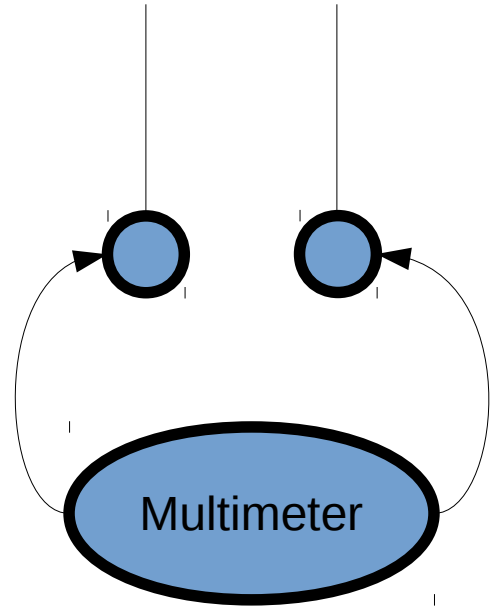


Analog



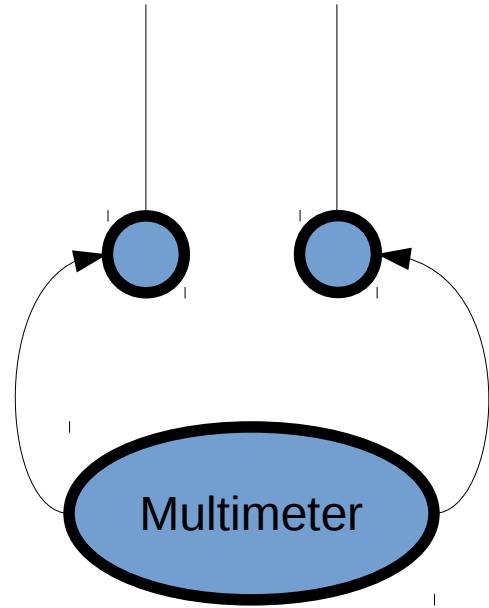
Digital vs. Analog

- 5 Volts?



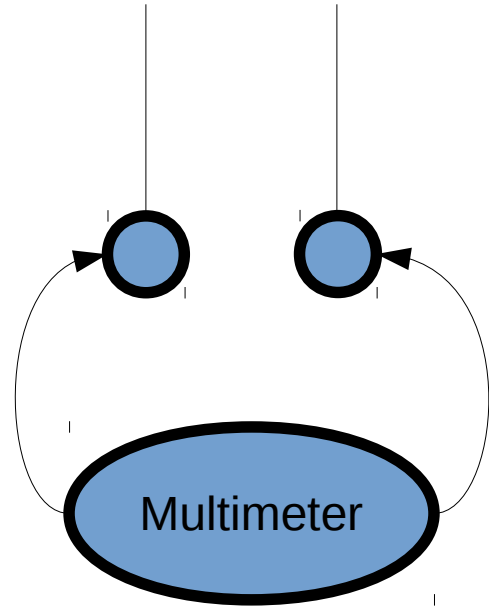
Digital vs. Analog

- 5 Volts?
- 0 Volts?



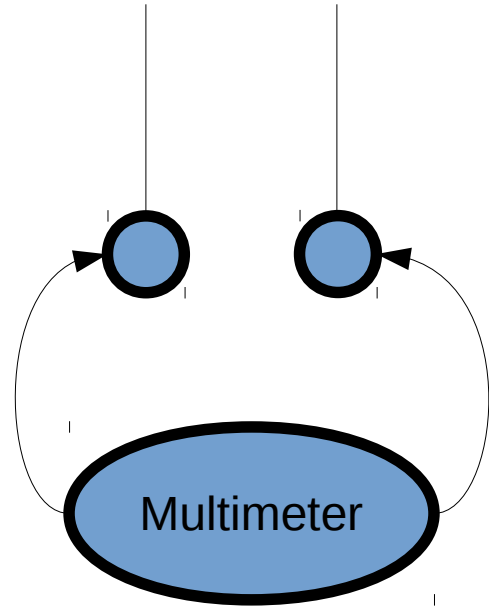
Digital vs. Analog

- 5 Volts?
- 0 Volts?
- 3.2 Volts?



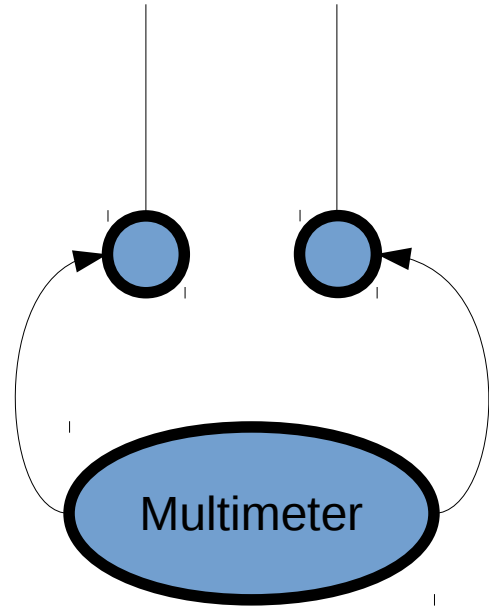
Digital vs. Analog

- 5 Volts?
- 0 Volts?
- 3.2 Volts?
- 2.1 Volts?

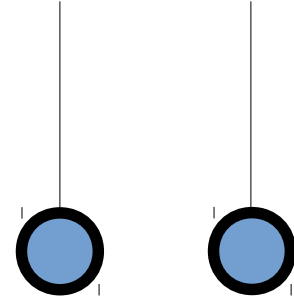
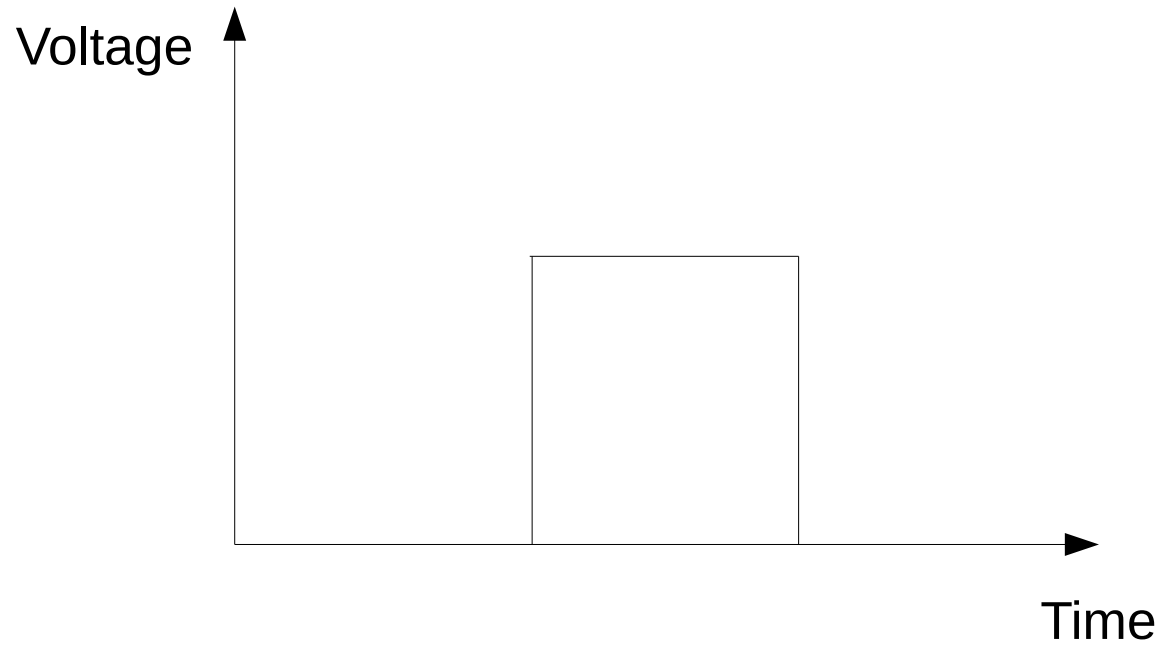


Digital vs. Analog

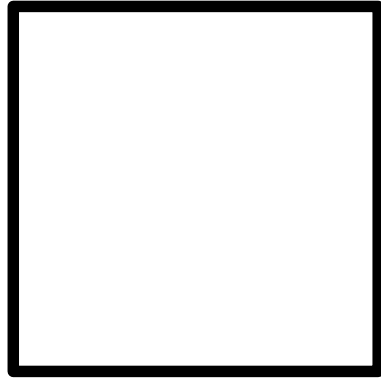
- 5 Volts?
- 0 Volts?
- 3.2 Volts?
- 2.1 Volts?
- 3.3 Volts?



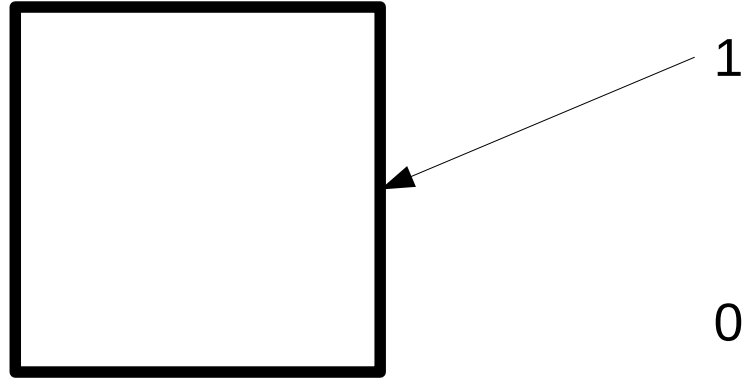
What is pulse?



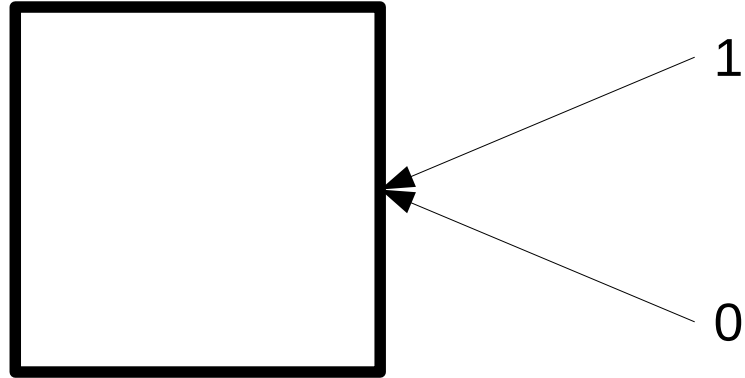
What is bit?



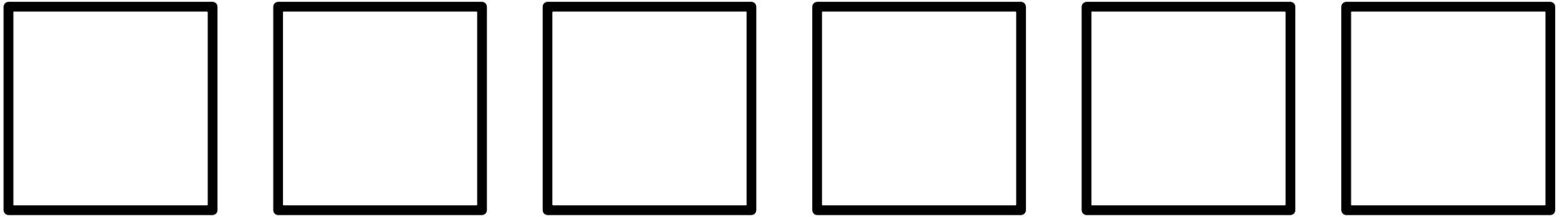
What is bit?



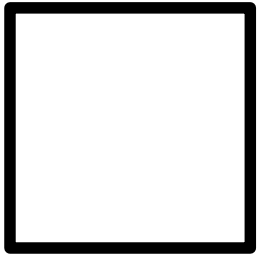
What is bit?



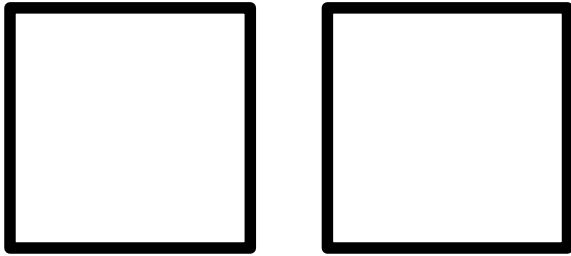
What is register?



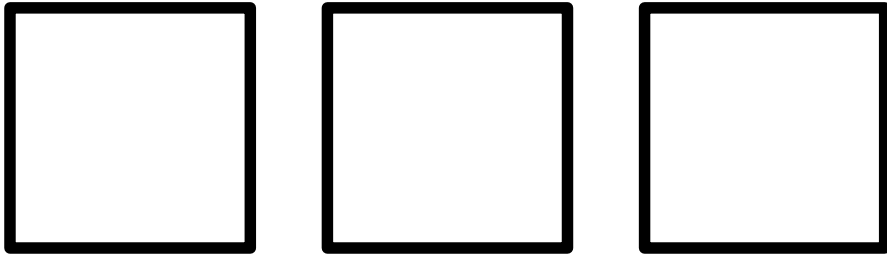
What is register?



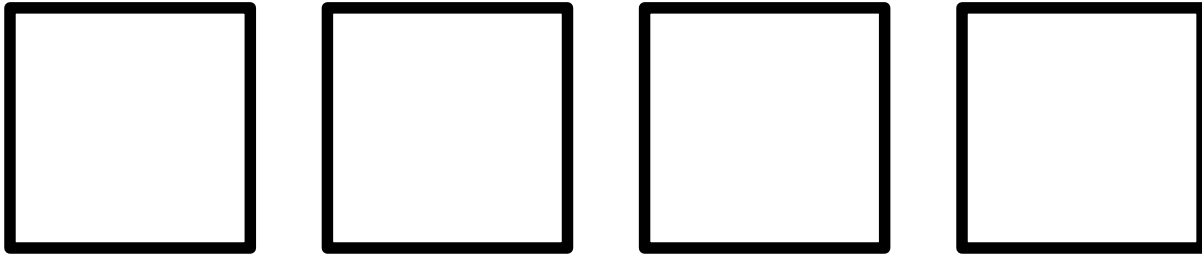
What is register?



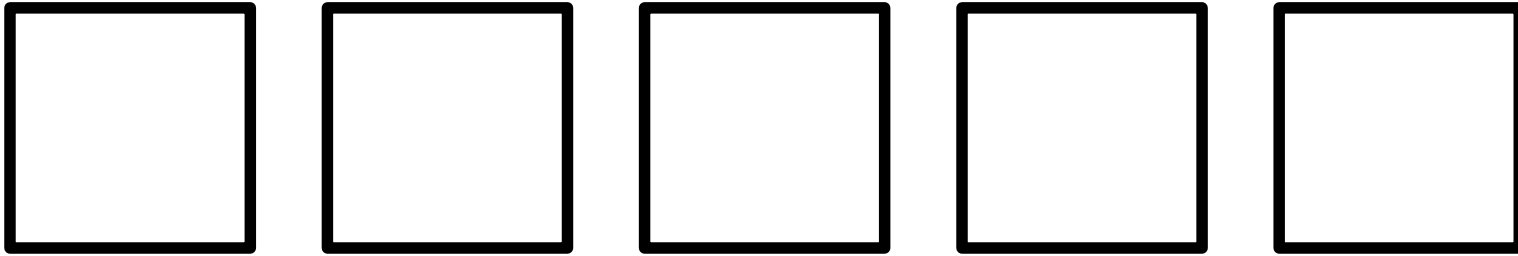
What is register?



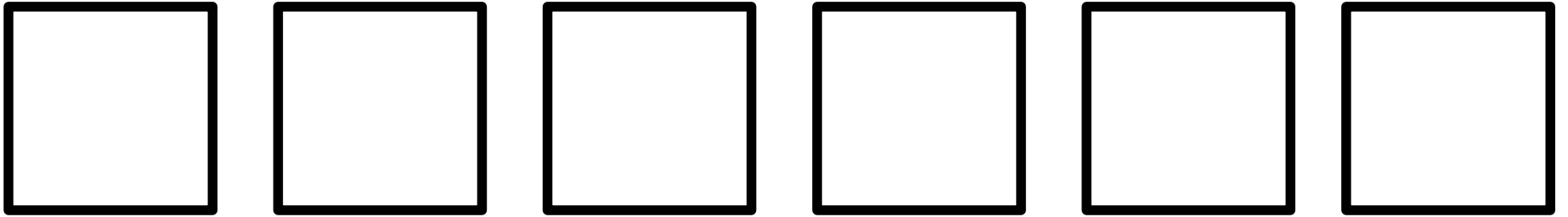
What is register?



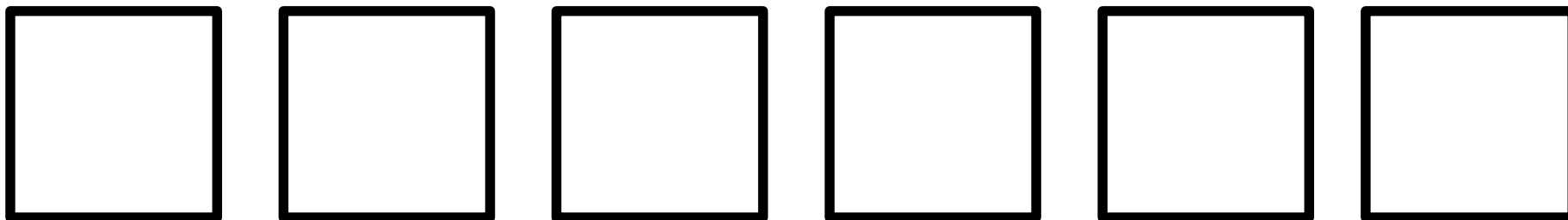
What is register?



What is register?

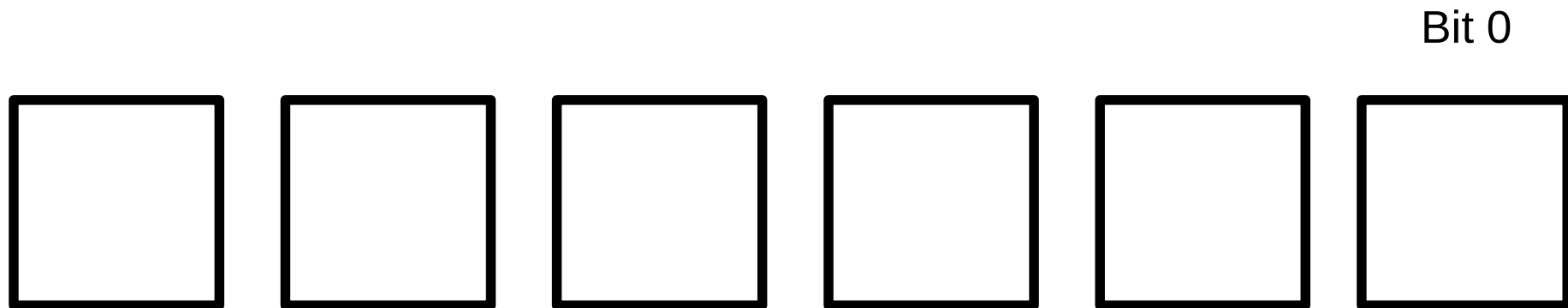


What is register?



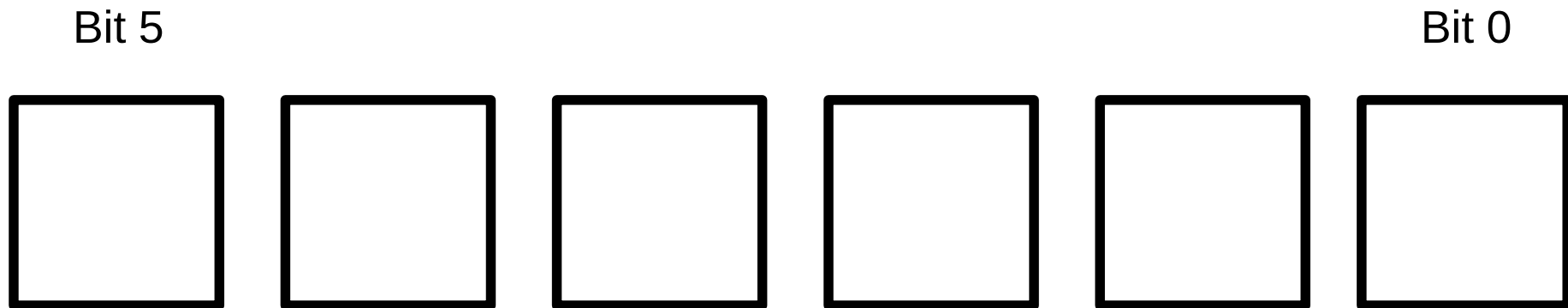
Register of 6 bits

What is register?



Register of 6 bits

What is register?

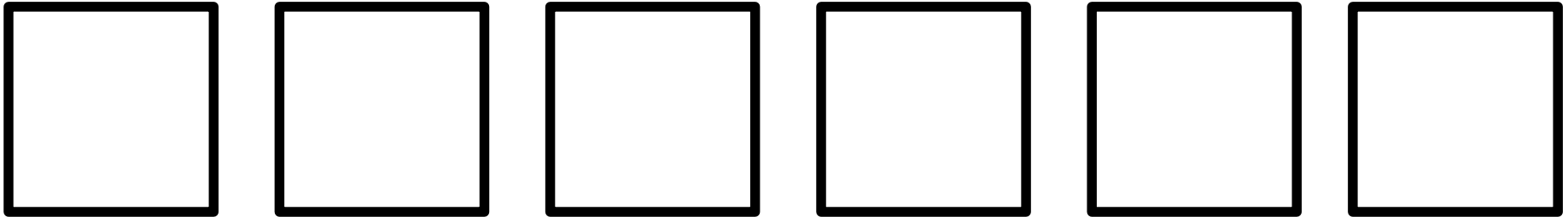


Register of 6 bits

What is register?

Bit 5

Bit 0



MSB
Most Significant Bit

LSB
Least Significant Bit

Register of 6 bits

What is memory?



Register

What is memory?



Register

Register

What is memory?

Register

Register

Register

What is memory?

Register

Register

Register

Register

Units?

- 8 Bits > 1 Byte.
- 1 Kilo Byte = 1024 Bytes.
- 1 Mega Byte = 1024 kilo Bytes.
- 1 Giga Byte = 1024 Mega Bytes.
- 1 Tera Byte = 1024 Giga Bytes.

Thanks